

AMENDMENTS TO THE CLAIMS:

Please cancel claims 1-36 without prejudice or disclaimer of the subject matter therein. This listing of claims will replace all prior versions and listings of claims in the application:

1-36. (Canceled)

37. (Original) An imaging system for capturing a non-singulated image of a plurality of forms traveling on a moving conveyor belt, comprising:

a primary lens assembly for converging a beam of light emitted from a surface of a conveyor belt towards a secondary lens assembly;

a secondary lens assembly for converging said beam of light from said primary lens assembly towards an image detector;

a phase mask positioned between said secondary lens assembly and said image detector for altering said beam of light such that said imaging system is insensitive to small distances between objects positioned on said conveyor belt and said image detector;

a beamsplitter disposed between said phase mask and said image detector for splitting said beam of light to a plurality of image detectors;

a first image detector for generating an output signal of a first portion of said conveyor belt; and

a second image detector for generating an output signal of a second portion of said conveyor belt, said second image detector disposed at a 90° angle from said first image detector.

38. (Original) The imaging system of claim 37, wherein the phase mask is encoded with a separable point spread function.